

### **Radiated Power - EIRP / ERP**

In accordance with FCC **KDB 412172 D01 Determining ERP and EIRP v01** please find below our calculations for determining the ERP and EIRP for the combination of module and host device covered under the scope of this C2PC filing.

The maximum output powers from the tune-up procedure are:

| Mode/band         | Max Output power |         |
|-------------------|------------------|---------|
| GSM 850           | 33.5 dBm         | 2.239 W |
| GSM 1900          | 30.5 dBm         | 1.122 W |
| EDGE 850 (8PSK)   | 28 dBm           | 0.631 W |
| EDGE 1900 (8PSK)  | 27 dBm           | 0.501 W |
| WCDMA Band II     | 24 dBm           | 0.251 W |
| WCDMA Band IV     | 24 dBm           | 0.251 W |
| WCDMA Band V      | 24 dBm           | 0.251 W |
| LTE B2 (1900MHz)  | 24 dBm           | 0.251 W |
| LTE B4 (1700MHz)  | 24 dBm           | 0.251 W |
| LTE B5 (850MHz)   | 24 dBm           | 0.251 W |
| LTE B13 (750MHz)  | 24 dBm           | 0.251 W |
| LTE B17 (700MHz)  | 24 dBm           | 0.251 W |
| LTE B25 (1900MHz) | 24 dBm           | 0.251 W |
| CDMA2000 BC0      | 25 dBm           | 0.316 W |
| CDMA2000 BC1      | 25 dBm           | 0.316 W |
| CDMA2000 BC10     | 25 dBm           | 0.316 W |

The Antenna gain of the FZ-G1 host system is as follows;

- \* LTE Band 13, (750MHz): ..... 1.18 dBi (−0.97dBd)
- \* LTE Band 17, (700MHz): ..... −1.02 dBi (−3.17dBd)
- \* GSM850/ EDGE850/ WCDMA Band V  
/ LTE Band5/ CDMA2000 BC0, 10 (850MHz): ..... 0.52 dBi (−1.63dBd)
- \* GSM1900/ EDGE1900/ LTE Band2, 25  
/ WCDMA Band II/ CDMA2000 BC1 (1900MHz): ..... 1.29 dBi
- \* LTE Band 4, WCDMA Band IV (1700MHz): ..... 1.31 dBi

The ERP/EIRP values for the module in this host system can be calculated using option 2.1 of the KDB referenced above:

ERP/EIRP =  $P_T + G_T - L_C$  in this host are

| Mode/band            | ERP/EIRP | Conducted Power | Antenna gain | ERP/EIRP  |         |
|----------------------|----------|-----------------|--------------|-----------|---------|
| GSM 850              | ERP      | 33.5 dBm        | -1.63 dBd    | 31.87 dBm | 1.538 W |
| GSM 1900             | EIRP     | 30.5 dBm        | 1.29 dBi     | 31.79 dBm | 1.510 W |
| EDGE 850 (8PSK)      | ERP      | 28 dBm          | -1.63 dBd    | 26.37 dBm | 0.434 W |
| EDGE 1900 (8PSK)     | EIRP     | 27 dBm          | 1.29 dBi     | 28.29 dBm | 0.675 W |
| WCDMA Band II (1900) | EIRP     | 24 dBm          | 1.29 dBi     | 25.29 dBm | 0.338 W |
| WCDMA Band IV (1700) | EIRP     | 24 dBm          | 1.31 dBi     | 25.31 dBm | 0.340 W |
| WCDMA Band V (850)   | ERP      | 24 dBm          | -1.63 dBd    | 22.37 dBm | 0.173 W |
| LTE B2 (1900MHz)     | EIRP     | 24 dBm          | 1.29 dBi     | 25.29 dBm | 0.338 W |
| LTE B4 (1700MHz)     | EIRP     | 24 dBm          | 1.31 dBi     | 25.31 dBm | 0.340 W |
| LTE B5 (850MHz)      | ERP      | 24 dBm          | -1.63 dBd    | 22.37 dBm | 0.173 W |
| LTE B13 (750MHz)     | ERP      | 24 dBm          | -0.97 dBd    | 23.03 dBm | 0.201 W |
| LTE B17 (700MHz)     | ERP      | 24 dBm          | -3.17 dBd    | 20.83 dBm | 0.121 W |
| LTE B25 (1900MHz)    | EIRP     | 24 dBm          | 1.29 dBi     | 25.29 dBm | 0.338 W |
| CDMA2000 BC0 (850)   | ERP      | 25 dBm          | -1.63 dBd    | 23.37 dBm | 0.217 W |
| CDMA2000 BC1(1900)   | EIRP     | 25 dBm          | 1.29 dBi     | 26.29 dBm | 0.426 W |
| CDMA2000 BC10 (800)  | ERP      | 25 dBm          | -1.63 dBd    | 23.37 dBm | 0.217 W |